

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/594,418
371 Filing Date	September 26, 2006
First Named Inventor	Poon et al.
Art Unit	1638
Examiner Name	Not assigned
Attorney Docket Number	123-03

Confirmation No. 8065

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U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	6,624,344	09/23/2003	Rangan et al.	
	2	6,620,990	09/16/2003	Rangan et al.	
	3	6,573,437	06/03/2003	Anderson et al.	
	4	6,483,013	11/19/2002	Reynaerts et al.	
	5	6,479,287	11/12/2002	Reichert et al.	
	6	6,350,594	02/26/2002	Clarke et al.	
	7	6,271,001	08/07/2001	Clarke et al.	
	8	5,874,662	02/23/1999	Rangan et al.	
	9	5,859,321	01/12/1999	Rangan et al.	
	10	5,846,797	12/08/1998	Strickland	
	11	5,834,292	11/10/1998	Rangan et al.	
	12	5,830,747	11/03/1998	Chen et al.	
	13	5,747,297	05/05/1998	Clarke et al.	
	14	5,695,999	12/09/1997	Rangan et al.	
	15	5,646,029	07/08/1997	Chen et al.	
	16	5,583,036	12/10/1996	Rangan et al.	
	17	5,296,245	03/22/1994	Clarke et al.	
	18	5,244,802	09/14/1993	Rangan	
	19	5,159,135	10/27/1992	Umbeck	
	20	5,133,979	07/28/1992	Clarke et al.	
	21	5,004,863	04/02/1991	Umbeck	
	22	4,672,035	06/19/1987	Davodonis et al.	
	23	2003/0143744	07/31/2003	Dunwell et al.	

FOREIGN PATENT DOCUMENTS

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	24	WO 01/41557	06/14/2001	Kasha et al.		
	25	WO 01/00785	01/04/2001	Hall et al.		
	26	WO 00/77230	12/21/2000	Chen et al.		
	27	WO 00/53783	09/14/2000	Jiao et al.		
	28	WO 00/36911	06/29/2000	Armstrong et al.		
	29	EP 0 455 597	11/06/1991	Kreuger et al.		
	30	EP 0 317 512	08/05/1992	Finar	English Abstract	

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	31	Albersheim et al. (1967) "A Method for the Analysis of Sugars in Plant Cell-Wall Polysaccharides by Gas-Liquid Chromatography," <i>Carbohydrate Res.</i> 5:340-345	
	32	Ambion, "FirstChoice RLM-Race Kit," Catalogue No. 1700, Austin, TX, USA, pp. 1-30	
	33	Anderson et al. (1979) "The Composition of Eight <i>Acacia</i> Gum Exudates from the Series <i>Gummiferae</i> and <i>Vulgares</i> ," <i>Phytochem.</i> 18:609-610	
	34	Bai et al. (2000) "Mechanisms of Plant Embryo Development," <i>Curr. Top. Dev. Biol.</i> 50:61-88	
	35	Benson, E.E. (2003) "In Vitro Plant Recalcitrance: An Introduction," <i>In Vitro Cell. Dev. Biol. Plant</i> 36:141-148	
	36	Blakeney et al. (1983) "A Simple and Rapid Preparation of Alditol Acetates for Nonosaccharide Analysis," <i>Carbohydrate Res.</i> 113:291-299	
	37	Bowman et al. (1996) "Genetic Base of Upland Cotton Cultivars Released Between 1970 and 1990," <i>Crop. Sci.</i> 36:577-581	
	38	Chapman et al. (2000) "Arabinogalactan-Proteins in <i>Cichorium</i> Somatic Embryogenesis: Effect of β -Glucosyl Yariv Reagent Epitope Localisation During Embryo Development," <i>Plant</i> 211:305-314	
	39	Chian et al. (1995) "A Procedure for Biolistic Transformation and Regeneration of Transgenic Cotton from Meristematic Tissue," <i>Plant Mol. Biol. Rep.</i> 13(1):31-37	
	40	Clarke et al. (1978) "Characterization and Localization of β -Lectins in Lower and Higher Plants," <i>Aust. J. Plant. Physiol.</i> 5:707-722	
	41	Clarke et al. (1979) "Form and Function of Arabinogalactans and Arabinogalacton-Proteins," <i>Phytochemistry</i> 18:521-540	
	42	Cousins et al. (1991) "Transformation of an Australian Cotton Cultivar: Prospects for Cotton Improvement Through Genetic Engineering," <i>Aust. J. Plant. Physiol.</i> 18:481-494	
	43	Davidonis et al. (1983) "Plant Regeneration from Callus Tissue of <i>Gossypium hirsutum</i> L.," <i>Plant Sci. Lett.</i> 32:89-93	
	44	Egertsdotter et al. (1998) "Development of Somatic Embryos in Norway Spruce," <i>J. Exp. Bot.</i> 49(319):155-162	
	45	Egertsdotter et al. (1995) "Importance of Arabinogalactan Proteins for the Development of Somatic Embryos of Norway Spruce (<i>Picea abies</i>)," <i>Phys. Plantarum</i> 93:334-345	
	46	Fehér et al. (Sept 2003) "Transition of Somatic Plant Cells to an Embryogenic State," <i>Plant Cell Tissue Organ Culture</i> 74(3):201-228	
	47	Fincher et al. (1983) "Arabinogalactan-Proteins: Structure, Biosynthesis, and Function," <i>Ann. Rev. Plant Physiol.</i> 34:47-70	

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	48	Firoozabady et al. (1987) "Transformation of Cotton (<i>Gossypium hirsutum</i> L.) by <i>Agrobacterium tumefaciens</i> and Regeneration of Transgenic Plants," <i>Plant Mol. Biol.</i> 10:105-116	
	49	Firoozabady et al. (1993) "Plant Regeneration Via Somatic Embryogenesis in Many Cultivats of Cotton (<i>Gossypium hirsutum</i> L.)," <i>In Vitro Cell Dev. Biol.</i> 29P:166-173	
	50	Gane et al. (1995) "Structural Analysis of the Carbohydrate Moiety of Arabinogalactan-Proteins from Stigmas and Styles of <i>Nicotiana glauca</i> ," <i>Carbohydr. Res.</i> 277:67-85	
	51	Gelvin, S.B. (Mar. 2003) "Agrobacterium-Mediated Plant Transformation: The Biology Behind the 'Gene-Jockeying' Tool," <i>Microbiol. Mol. Biol. Rev.</i> 67(1):16-37	
	52	Gould, J.H. (1998) "Adaptation of Cotton Shoot Apex Culture to Agrobacterium-Mediated Transformation," <i>Plant. Mol. Biol. Report.</i> 16(3):283- (1-10)	
	53	Hudspeth et al. (1996) "Characterization and Expression of Metallothionein-Like Genes in Cotton," <i>Plant Mol Biol.</i> 31(3):701-705	
	54	Invitrogen Life Technologies (Dec. 6, 2004) "3'RACE System for Rapid Amplification of cDNA Ends Kit," Catalogue No. 18373-019, Carlsbad, CA, USA	
	55	Invitrogen Life Technologies, "Murashige and Skoog Salt Mixture Powder," Catalogue No. 11117-074, Carlsbad, CA, Downloaded August 8, 2007	
	56	Invitrogen Life Technologies (Nov. 11, 2003) "Superscript II Reverse Transcriptase," Catalogue No. 18064-022, Carlsbad, CA, USA	
	57	Invitrogen Life Technologies (Jul. 24, 2003) "Taq DNA Polymerase," Catalogue No. 18038-042, Carlsbad, CA, USA	
	58	Invitrogen Life Technologies (Jul. 11, 2003) "Platinum Pfx DNA Polymerase," Catalogue No. 11708-013, Carlsbad, CA, USA	
	59	Invitrogen Life Technologies (Apr. 6, 2006) "pENTR Directional Topo Cloning Kit," Catalogue No. 45-0218, Carlsbad, CA USA	
	60	Invitrogen Life Technologies (Jun. 8, 2007) "E. coli Expression System with Gateway Technology," Catalogue No. 11803-012, Carlsbad, CA, USA	
	61	Invitrogen Life Technologies (Aug. 1, 2006) "Platinum Taq DNA Polymerase High Fidelity," Catalogue No. 11304-011, Carlsbad, CA, USA	
	62	Invitrogen Life Technologies (Sep. 17, 2002) "BL21 Star (DE3) One Shot Escherichia coli Cells," Catalogue No. C6010-03, Carlsbad, CA, USA	
	63	Kreuger et al. (2000) "Effect of Arabinogalactan-Proteins and Chitinases on Somatic Embryogenesis," <i>Cell and Developmental Biology of Arabinogalactan-Proteins</i> , Ch. 10, Nothnagel et al. eds., Kluwer Academic/Plenum Publishers, pp. 109-119	
	64	Kreuger et al. (1993) "Arabinogalactan Proteins are Essential in Somatic Embryogenesis of <i>Daucus carota</i> L.," <i>Planta</i> 189:243-248	
	65	Kreuger et al. (1995) "Arabinogalactan-Protein Epitopes in Somatic Embryogenesis of <i>Daucus carota</i> L.," <i>Planta</i> 197:135-141	
	66	Kreuger et al. (1995) "Somatic Embryogenesis of <i>Cylamen persicum</i> in Liquid	
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		Medium," <i>Phys. Plantarum</i> 94:605-612	
	67	Majewska-Sawka et al. (2000) "The Multiple Roles of Arabinogalactan Proteins in Plant Development," <i>Plant Physiol.</i> 122:3-9	
	68	Mau et al. (1995) "Molecular Cloning of cDNAs Encoding the Protein Backbones of Arabinogalactan-Proteins from the Filtrate of Suspension-Cultured Cells of <i>Pyrus communis</i> and <i>Nicotiana glauca</i> ," <i>Plant J.</i> 8:269-281	
	69	Meredith (2000) "Continued Progress in Breeding for Yield in the USA," <i>Proc. World Cotton Res. Conf. II Athens Greece</i> , pp. 97-101	
	70	Minorsky, P.V. (Feb. 2002) "The Hot and the Classic," <i>Plant Physiol.</i> 128:334-335	
	71	Mishra et al. (2003) "Development of a Highly Regenerable Elite Acala Cotton (<i>Gossypium hirsutum</i> cv. Maxxa) – A Step Towards Genotype-Independent Regeneration," <i>Plant Cell Tissue Organ Culture</i> 73:21-35	
	72	Nothnagel (1997) "Proteoglycans and Related Components in Plant Cells," <i>Int. Rev. Cytol.</i> 174:195-291	
	73	Paterson et al. (1999) "Future Horizons, Biotechnology for Cotton Improvement," in <i>Cotton. Origin, History, Technology and Production</i> , Smith et al. eds., John Wiley and Sons, New York, pp. 415	
	74	Peeters et al. (1994) "Protoclast-to-Plant Regeneration in Cotton (<i>Gossypium hirsutum</i> L. Cv. Coker 312) Using Feeder Layers," <i>Plant Cell. Rep.</i> 13:208-211	
	75	Pereira-Netto et al. (1998) "Changes on the Differentiation Pattern of Carrot Cells Induced by a Sulphated Alpha-D-Glucan and an Arabinogalactan," <i>The American Society of Plant Physiologists</i> , 1(1):44, Abstract 601	
	76	Pereira-Netto et al. (1999) "Inhibitory Effects of an Arabinogalactan on the Somatic Embryogenesis of Carrot (<i>Daucus carota</i> L.) Cells," <i>Abstract No. 706 p. 151</i>	
	77	Poon et al. (2002) "Somatic Embryogenesis-Specific Arabinogalactan-Proteins in Cotton Cell Cultures," <i>In Vitro Cell. Dev. Biol. Animal</i> 38:134A Abstract no. p-1450 (Abstract Only)	
	78	Poon et al. (2004) "Improving the Efficiency of Embryogenesis in Elite Cotton Cultivars," <i>11th Aust. Cotton Conference</i> , August 10-12	
	79	Promega (Apr. 2007) "Sequence Grade Modified Trypsin," <i>Catalogue No. V5111</i> , Madison, WI, USA	
	80	Promega (May 2007) "pGEM-T and pGEM-T Easy Vector Systems," <i>Catalogue No. A1360</i> , Madison, WI, USA	
	81	QIAGEN GmbH (June 2003) "Ni-NTA Agarose," <i>Catalogue No. 30210</i> , Hilden, Germany	
	82	Sakhanokho et al. (2001) "Induction of Highly Embryogenic Calli and Plant Regeneration in Upland (<i>Gossypium hirsutum</i> L.) and Pima (<i>Gossypium barbadense</i> L.) Cottons," <i>Crop Sci.</i> 41:1235-1240	
	83	Satyavathy et al. (Feb. 2002) "High Efficiency Transformation Protocol for Three Indian Cotton Varieties Via <i>Agrobacterium tumefaciens</i> ," <i>Plant Sci.</i> 162(2):215-223	
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	84	Schultz et al. (2002) "Using Genomic Resources to Guide Research Directions. The Arabinogalactan Protein Gene Family as a Test Case," <i>Plant Physiology</i> 129:1448-1463	
	85	Shoemaker et al. (1986) "Characterization of Somatic Embryogenesis and Plant Regeneration in Cotton (<i>Gossypium hirsutum</i> L.)," <i>Plant Cell. Report</i> 3:178-181	
	86	Showalter (2001) "Arabinogalactan-Proteins: Structure, Expression and Function," <i>Cell Mol. Life Sci.</i> 58:1399-1417	
	87	Sigma, "Plant Cell Culture, Tested, Liquid," Catalogue No. G1019, St. Louis, MO, USA, Non-Dated	
	88	Sigma (Oct. 1998) "THROMBIN CleanCleave KIT," Catalogue No. RECOM-T, St. Louis, MO, USA	
	89	Steele-King et al. (2000) "Arabinogalactan-Proteins and Cell Development in Roots and Somatic Embryos," <i>Cell Development Biology of Arabinogalactan-Proteins</i> , Ch. 9, Nothnagel et al. ed., Kluwer Academic/Plenum Publishers, pp. 95-107	
	90	Stelly et al. (1985) "Cytogenetic Variation Amongst Cotton Somaclones," <i>Argo Abstracts Am. Soc. Agronomy</i> p. 135	
	91	Sunikumar et al. (Aug. 2001) "Transgenic Cotton: Factors Influencing <i>Agrobacterium</i> -Mediated Transformation and Regeneration," <i>Mol. Breed.</i> 8(1):37-52	
	92	Thompson et al. (1998) "Stage-Specific of Embryogenic Carrot Cell Suspension Cultures to Arabinogalactan Protein-Binding β -Glucosyl Yariv Reagent," <i>Planta</i> 205:32-38	
	93	Toonen et al. (1997) "Promotive and Inhibitory Effects of Diverse Arabinogalactan Proteins on <i>Daucus Carota</i> L. Comatic Embryogenesis," <i>Planta</i> 203:188-195	
	94	Trolinder et al. (1987) "Somatic Embryogenesis and Plant Regeneration in Cotton (<i>Gossypium hirsutum</i> L.)," <i>Plant Cell Reports</i> 6:231-234	
	95	Umbeck et al. (1987) "Genetically Transformed Cotton (<i>Gossypium Hirsutum</i> L.) Plants," <i>BioTechnol.</i> 5:263-266	
	96	van Hengel et al. (2001) "N-Acetylglucosamine and Glucosamine-Containing Arabinogalactan Proteins Control Somatic Embryogenesis," <i>Plant Physiol.</i> 125:1880-1890	
	97	van Hengel et al. (2002) "A Relationship Between Seed Development, Arabinogalactan-Proteins (AGPs) and the AGP Mediated Promotion of Somatic Embryogenesis," <i>Physiologia Plantarum</i> 114:637-644	
	98	von Arnold et al. (2002) "Developmental Pathways of Somatic Embryogenesis," <i>Plant Cell Tis. Org. Cult.</i> 69:233-249	
	99	Voo et al. (Jul. 1991) "Indirect Somatic Embryogenesis and Plant Recovery From Cotton (<i>Gossypium hirsutum</i> L.)," <i>In Vitro Cell Dev. Biol.</i> 27P:117-124	
	100	Wilkins et al. (2000) "Cotton Biotechnology," <i>Crit. Rev. Plant Sci.</i> 19:511-550	
	101	Wu et al. (Mar. 2003) "Factors Affecting Somatic Embryogenesis and Plant Regeneration from a Range of Recalcitrant Genotypes in Cotton (<i>Gossypium</i>	
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		<i>hirsutum</i> L.)," 3 rd World Cotton Research Conference, Cape Town, South Africa, March 9-13, Abstract No. PS 17.4	T ²
	102	Yariv et al. (1967) "Precipitation of Arabic Acid and Some Seed Polysaccharides by Glycosylophenylazo Dyes," <i>Biochem. J.</i> 105:1c-2c	
	103	Yariv et al. (1962) "The Interaction of Glycosides and Saccharides with Antibody to the Corresponding Phenylazo Glycosides," <i>Biochem. J.</i> 85:383-388	
	104	Zhang et al. (2001) "High Frequency Somatic Embryogenesis and Plant Regeneration of an Elite Chinese Cotton Variety," <i>Bot. Bull. Acad. Sin</i> 42:9-16	
	105	Zhang et al. (2001) "Direct Somatic mbryogenesis and Plant Regeneration from Cotton (<i>Gossypium Hirsutum</i> L.) Explants," <i>Isr. J. Plant. Sci.</i> 49:193-196	
	106	Zhang et al. (2000) "Plant Regeneration via Somatic Embryogenesis in Cotton," <i>Plant Cell Tissue Organ Culture</i> 60:89-94	

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